

11/9/2 (Item 2 from file: 347)
DIALOG(R) File 347:JAPIO
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04980274 **Image available**
LIGHTING DEVICE FOR ELECTRODELESS DISCHARGE LAMP

PUB. NO.: 07-272874 [JP 7272874 A]
PUBLISHED: October 20, 1995 (19951020)
INVENTOR(s): ONO KOICHI
OKAMOTO FUTOSHI
APPLICANT(s): MATSUSHITA ELECTRIC WORKS LTD [000583] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 06-057869 [JP 9457869]
FILED: March 28, 1994 (19940328)
INTL CLASS: [6] H05B-041/24
JAPIO CLASS: 43.4 (ELECTRIC POWER -- Applications)
JAPIO KEYWORD: R097 (ELECTRONIC MATERIALS -- Metal Oxide Semiconductors, MOS)

ABSTRACT

PURPOSE: To prevent the decrease of a residual ion to light a discharge lamp easily and quickly even in a dark place by applying voltage, in a degree of incapable of lighting an electrodeless discharge lamp in an extinguished condition, to a coil for supplying high frequency electric power wound on the outer periphery of the discharge lamp.

CONSTITUTION: High frequency electric power, generated by a high frequency electric power supplying means A, composed of an oscillation circuit 1 and amplification circuits 2 and 5, is supplied to a coil 8 wound on the outer periphery of an electrodeless discharge lamp 7 via a matching circuit 4. The voltage E or E(sub 1) of a D.C power source E or E(sub 1) used at that time is made E>E(sub 1), and the applied voltage of the coil 8 when the power source E(sub 1) is used by a switch AW is set lower than the start voltage of the discharge lamp 7. That is, when the discharge lamp 7 is in an extinguished condition, voltage in a degree unable to light the discharge lamp 7 to the coil 8 by the power source E(sub 1). Consequently, the discharge lamp 7 left in a dark place can be easily and quickly lit even in the dark place with the decrease of an inside residual ion prevented.

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03221501 **Image available**
ELECTRODELESS DISCHARGE LAMP APPARATUS

PUB. NO.: 02-197001 [JP 2197001 A]
PUBLISHED: August 03, 1990 (19900803)
INVENTOR(s): KOBAYASHI KOICHI
APPLICANT(s): MATSUSHITA ELECTRIC WORKS LTD [000583] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 01-015664 [JP 8915664]
FILED: January 25, 1989 (19890125)
INTL CLASS: [5] F21S-001/00
JAPIO CLASS: 43.4 (ELECTRIC POWER -- Applications)
JOURNAL: Section: M, Section No. 1038, Vol. 14, No. 486, Pg. 59, October 23, 1990 (19901023)

ABSTRACT

PURPOSE: To stabilize operation by a method wherein a discharge vessel and an induction coil constituting an electrodeless discharge lamp are mounted on a lamp unit so that they are longitudinally movable while a plate body comprising a metallic conductor which longitudinally moves interlockingly with the above components is provided closely to the coil so that a distance between the coil and the plate body is constant irrespective of the lamp position.

CONSTITUTION: A translucent discharge vessel 2 with discharge gas sealed and an induction coil 3 wound around its outer periphery comprise an electrodeless discharge lamp 1, which is fixed with adhesive 5 to a plate body 4 made of a metallic conductor. The plate body 4 is mounted on a lamp unit 7 so that it can be moved longitudinally via a vertical position adjusting means 6 comprising a rack, a pinion, etc., while the plate body 4 provided below the coil 3 is moved longitudinally interlocked with longitudinal motion of the lamp 1. This therefore allows position adjustment of the lamp 1 without changing relative distance of the lamp 1 and the coil 3 with respect to the plate body 4, stabilizing output in the lamp unit 6 and an installed high frequency oscillation circuit 8 to supply it to the coil 3.

11/9/15 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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001151919

WPI Acc No: 1974-25670V/ 197414

Discharge lamp mnf - fused silica or ceramic discharge tube enclosed in an outer envelope

Patent Assignee: THORN ELECTRICAL INDS (THOE)

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 48081375	A	19731031				197414 B
ZA 7300154	A	19740226				197422
GB 1423981	A	19760204				197606

Priority Applications (No Type Date): GB 721732 A 19720113

Abstract (Basic): JP 48081375 A

This invention relates to high pressure discharge lamps which comprises a fused silica or ceramic discharge tube enclosed in an outer envelope . A refractory electrode structure for the discharge lamp comprises a coil of tungsten wire wound around a tungsten rod to form a cap within which a pellet is located. The structure includes a sintered tungsten powder matrix supported by a tungsten rod. The matrix carried by a rod includes cavities in which pellets of halogen generating material for example sodium iodide, and electron emissive material are located. The cavity containing the sodium iodide may be closed by a sintered refractory body, which protects the substance from atmospheric action and may control dispensing of the material during heating or bombardment by ions or electrons.

Title Terms: DISCHARGE; LAMP; FUSE; SILICA; CERAMIC; DISCHARGE; TUBE; ENCLOSE; OUTER; ENVELOPE

Derwent Class: L03; V05; X26

International Patent Class (Additional): H01J-061/02

File Segment: CPI; EPI

Manual Codes (CPI/A-N): L03-C03

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GB 1423981	A	19760204				197606

Priority Applications (No Type Date): GB 721732 A 19720113

Abstract (Basic): JP 48081375 A

This invention relates to high pressure discharge lamps which comprises a fused silica or ceramic discharge tube enclosed in an outer envelope. A refractory electrode structure for the discharge lamp comprises a coil of tungsten wire wound around a tungsten rod to form a cap within which a pellet is located. The structure includes a sintered tungsten powder matrix supported by a tungsten rod. The matrix carried by a rod includes cavities in which pellets of halogen generating material for example sodium iodide, and electron emissive material are located. The cavity containing the sodium iodide may be closed by a sintered refractory body, which protects the substance from atmospheric action and may control dispensing of the material during heating or bombardment by ions or electrons.

Title Terms: DISCHARGE; LAMP; FUSE; SILICA; CERAMIC; DISCHARGE; TUBE; ENCLOSE; OUTER; ENVELOPE

Derwent Class: L03; V05; X26

International Patent Class (Additional): H01J-061/02

File Segment: CPI; EPI

Manual Codes (CPI/A-N): L03-C03

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Set	Items	Description
S1	117048	LAMP? OR FLUORESCEN?
S2	318	(EXTERNAL? OR OUTER?) (3N)ELECTRODE?
S3	1549304	WOUND? OR WIND? OR ENVELOPE?
S4	0	S2(4N)S3
S5	1240	FEED(2N)WIRE?
S6	1690	DISCHARGE()TUBE OR GLASS()TUBE?
S7	0	S1(S)S2(S)S3(S) (S5 OR S6)
S8	0	S1(S)S2(S)S3
S9	5	S1(S)S2
S10	4	RD (unique items)
S11	2	S10 AND PY<=2000

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File 610:Business Wire 1999-2002/Nov 04

(c) 2002 Business Wire.

File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire

File 16:Gale Group PROMT(R) 1990-2002/Nov 04

(c) 2002 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989

(c) 1999 The Gale Group

File 148:Gale Group Trade & Industry DB 1976-2002/Nov 04

(c)2002 The Gale Group

File 484:Periodical Abs Plustext 1986-2002/Oct W4

(c) 2002 ProQuest

File 646:Consumer Reports 1982-2002/Oct

(c) 2002 Consumer Union

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Set	Items	Description
S1	125473	LAMP? OR FLUORESCEN?
S2	8568	(EXTERNAL? OR OUTER?) (3N)ELECTRODE?
S3	257991	WOUND? OR WIND? OR ENVELOPE?
S4	159	S2(4N)S3
S5	1431	FEED(2N)WIRE?
S6	9976	DISCHARGE()TUBE OR GLASS()TUBE?
S7	4	S1(S)S4(S) (S5 OR S6)
S8	16	S1(10N)S4
S9	11	S1(5N)S4
S10	13	S7 OR S9
S11	9	S10 AND PY<=1999

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File 348:EUROPEAN PATENTS 1978-2002/Oct W04

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File 349:PCT FULLTEXT 1979-2002/UB=20021031,UT=20021024

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EXTERNAL ELECTRODE DRIVEN DISCHARGE LAMP

LAMPE A DECHARGE EXCITEE PAR DES ELECTRODES EXTERNES

Patent and Priority Information (Country, Number, Date):

Patent: WO 9949493 A1 19990930
Application: WO 98US23722 19981109 (PCT/WO US9823722)

English Abstract

A discharge lamp (20), such as a neon lamp, comprising a laminated envelope having a gas-discharge channel and at least one external electrode (44) in communication with the gas-discharge channel (20), the laminated envelope having a front surface (32) and a back surface (28) integrated together to form a unitary envelope body essentially free of any sealing materials. The external electrode (44) comprises an electrode surface integral with the laminated envelope and a conductive medium disposed on the electrode surface. The conductive medium may be conductive tape, conductive ink, conductive coatings, frit with conductive filler or conductive epoxies. The discharge lamp may comprise a laminated envelope including a plurality of separate gas-discharge channels and external electrodes in communication with the gas-discharge channels, whereby the discharge is driven in parallel.

French Abstract

Une lampe a decharge (20) telle qu'une lampe a neon comprend une enveloppe multicouches comportant un passage de sortie pour la gaz et au moins une electrode externe (44) qui communique avec ledit passage (20) de sortie pour le gaz, l'enveloppe multicouches presentant une surface avant (32) et une surface arriere (28) assemblees ensemble pour former un corps d'enveloppe unitaire essentiellement depourvu de matiere de fermeture etanche. L'electrode externe (44) comporte une surface d'electrode qui fait partie integrante de l'enveloppe multicouches et un milieu conducteur situe sur la surface de l'electrode. Le milieu conducteur peut etre une bande conductrice, de l'encre conductrice, des revetements conducteurs, scelles avec une charge conductrice ou avec des matieres epoxydiques conductrices. La lampe a decharge peut comprendre une enveloppe multicouches comportant plusieurs passages separes de sortie pour le gaz et des electrodes externes qui communiquent avec les passages de sortie pour le gaz, la decharge etant ainsi menee en parallele.

Patent and Priority Information (Country, Number, Date):

Patent: ... 19990930

Fulltext Availability:

Detailed Description

Claims

Publication Year: 1999

Detailed Description

... to the present invention, these and other objects and advantages are achieved in a discharge lamp comprising a laminated envelope and external electrodes for inducing an electrical gas discharge. The laminated envelope comprises at least one gas-discharge...conductive medium disposed on the electrode surface is suitable for the present invention. A discharge lamp comprising a laminated envelope with one external electrode and one gas-discharge channel is capable of illumination since, as it is well known...

...effectively becomes a second external electrode. Nonetheless, to achieve optimum operating conditions in a discharge lamp comprising the above described laminated envelope a second external electrode should be provided, i.e., application of conductive tape or a separate, external electrode glass...

Claim

... plurality of gas-discharge channels.

7 The discharge lamp of claim 1 , wherein said laminated envelope comprises two external electrodes .

8 The discharge lamp of claim 1, wherein said laminated envelope comprises a plurality of external electrodes .

. The discharge lamp of claim 1, wherein said gas-discharge channel is evacuated and backfilled with an ionizable...

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